

Notice of Allowability

Application No.

10/668,777

Examiner

Michael Trinh

Applicant(s)

KAWAHARA ET AL.

Art Unit

2822

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 9/9/05.
2. ☒ The allowed claim(s) is/are 1-10.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some* c) ☐ None of the:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____


Michael Trinh
Primary Examiner

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DETAILED ACTION

*** This office action is in response to Applicant's Amendment filed September 09, 2005.

Claims 1-10 are pending.

Allowable Subject Matter

1. Claims 1-10 are allowed.
2. The following is a statement of reasons for the indication of allowable subject matter:

Applicant's amendment filed September 9, 2005 and convincing remarks have overcome the rejections of record, in which the references including Natori (JP-11-274671), Speakman (6,503,831), and Sakamoto (JP-09-320363), of record, alone or in combination, do not fairly anticipatively disclose each and every aspect of the claimed method, or fairly make a prima facie obvious case of the claimed method, in combination with other processing claimed limitations as recited in base claim 1, the inclusion of supplying a solution into the nozzle of the solution jetting device having a discharge port with an inner diameter of 0.1 to 100 microns, wherein the solution includes a plurality of fine particles adapted to form an electronic circuit by melting and sticking to one another and a dispersant for dispersing the fine particles; jetting liquid drops of the solution from the discharge port of the nozzle toward the surface of the base member by applying a voltage of an arbitrary waveform to the solution so that the solution is electrically charged; and exposing the jetted liquid drops received on the surface of the base member to light or heat to make the fine particles melt and stick to one another; and

as in claim 10, the inclusion of supplying a solution into the nozzle of the solution jetting device having a discharge port with an inner diameter of 0.1 to 100 microns, wherein the solution includes a plurality of adhesion particles adapted for adhering fine particles to form an electronic circuit by melting and sticking the fine particles to one another, and a dispersant for dispersing the adhesive particles; jetting liquid drops of the solution from the discharge port of the nozzle toward the surface of the base member by applying a voltage of an arbitrary waveform to the solution so that the solution is electrically charged; scattering the fine particles on the jetted liquid drops received on the surface of the base member to adhere the fine particles to the adhesion particles; removing fine particles which are not adhering to the adhesion particles among the scattered fine particles, from the surface of the base member, and exposing the jetted

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liquid drops received on the surface of the base member to light or heat to make the fine particles melt and stick to one another.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael M. Trinh whose telephone number is (571) 272-1847. The examiner can normally be reached on M-F: 8:30 Am to 5:00 Pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Zandra Smith can be reached on (571) 272-2429. The fax phone numbers for the organization where this application proceeding is (571) 273-8300.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

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Michael Trinh
Primary Examiner